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## 14-MeV Neutron Generators in Activation Analysis: A Bibliography

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National Bureau of Standards  
Washington, D.C. 20234



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## PREFACE

This bibliography is the fourth of a series of bibliographies on the application of Activation Analysis to specific subjects. The bibliographies in this series are produced from the master files of the Analytical Chemistry Division's Activation Analysis Information Center and will be periodically updated.

W. Wayne Meinke, Chief  
Analytical Chemistry Division



# 14-MeV NEUTRON GENERATORS IN ACTIVATION ANALYSIS: A BIBLIOGRAPHY

G. J. Lutz, Editor

The literature of 14-MeV neutron generators in activation analysis is reindexed in detail with respect to Element Determined, Matrix Analyzed and Technique Used for precise literature searching. An author index is included.

Key words: Activation analysis, element determined, 14-MeV neutron generators, matrix analyzed, technique used.

## INTRODUCTION

This publication, 14-MeV Neutron Generators in Activation Analysis: A Bibliography, is one of a series of specialized bibliographies on Activation Analysis, prepared by the Analytical Chemistry Division's Activation Analysis Information Center.

Publications obtained by the center for inclusion in the Activation Analysis Literature Storage and Retrieval Systems are indexed according to the broad categories of Element Determined, Matrix Analyzed and Technique Used. Currently there are 106 descriptive terms under Matrix Analyzed and 53 under Technique Used.

Candidates for inclusion in this bibliography were selected from the technique category Accelerator Sealed Tube-Neutrons. Those publications considered relevant to activation analysis have been reindexed with greater detail with respect to Matrix Analyzed and Technique Used, thus allowing users to make very specific searches on topics of interest.

An author index has been included and it is hoped that readers will point out omissions to the editor. It is intended to publish revisions of this bibliography at appropriate intervals.

The editor wishes to thank Mr. R. J. Boreni of the Activation Analysis Literature Center for his very substantial efforts on behalf of this bibliography.



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HALL, J.D.	2504
HAMBUCKEN, J.	7917
HANS, A.	7290 7291
HARRIS, W.F.	1589
HARRISON, A.	7902
HEADY, H.H.	500 2498
HEGEDUES, D.	2806
HENKELMANN, R.	7337
HENRY, C.N.	6713 6714

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HILL, W.W.	678
HIROSE, Y.	2418
HISLOP, J.S.	3790
HOFSTETTER, K.J.	5403
HONJO, T.	5776
HOPKINSON, E.C.	996
HORNSBY, J.B.	2433
HOSTE, J.	3411 5772 6398 6723 6728 7076 7289
HOUSTON, C.D.	2505
HOYTE, A.F.	2720 6222
HULL, D.E.	696 1258 1670 1738
HULL, R.L.	3355
IBERT, E.	1033 1721 1912
ICHIJIMA, I.	6856
IDDINGS, F.A.	1437 2518 2519 6975
ILLSLEY, C.T.	2549
INOUE, T.	7114
ISHIBASHI, N.	1514
ISHII, D.	2418
ISHIKAWA, H.	7297
JANCZYSZYN, J.	3335 6325 6973 7351 7387
JERVIS, R.E.	2666 7031
JESSEN, P.L.	316 324 1956 7027
JIMENEZ, P.	1912
JIRLOW, K.	6694
JONES, L.V.	2596
JONES, R.E.	1956
JONES, W.T.	2433
KAMAN NUCLEAR	658



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KAMATA, S.	1514
KAREV, V.N.	7214 7923
KARPUKHIN, O.A.	3751
KARTTUNEN, E.	7915
KEEPIN, G.R.	6713
KEHLER, P.	961
KEMPCHINSKY, P.C.	3073
KENNA, B.T.	2568 4228
KHALIKOV, T.	6301
KHALIN, N.F.	7214
KIM, J.I.	7337
KIREEV, V.A.	6705
KIRYANOV, G.I.	2561
KLOPFER, E.	1602 2761
KNIGHT, A.	6358
KNOX, R.J.	5384
KOBAYASHI, M.	5920
KOPINECK, H.J.	2615
KORBEL, K.	3335
KOSTA, L.	7413
KOSTER-PFLUGMACHER, A.	2678
KOVALENKO, L.I.	7923
KRAVTSOV, V.V.	7411
KUDINOV, B.S.	5782
KUEHNE, F.J.	3075 5383
KUROSAWA, R.	7293
KUSAKA, Y.	628 1152 1656 6352
KUSCH, W.	621 1859
KWIECINSKI, S.	3335 6325
LACOMBLE, M.	7290 7291 7917

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LANDRY, J.W.	3074
LAVERLOCHERE, J.	1046 1667 7313
LAVERTY, A.	3073
LBOV, A.A.	591 921
LEE, M.B.	1033
LEIMDORFER, M.	5261
LEIPUNSKAYA, D.I.	2617 3366
LEPETIT, H.	2802 4260
LISOVSKII, I.P.	7969
LOMER, P.D.	1701 2527
LOSKA, L.	3335 6325 6973 7351 7387
LOWE, K.	6402
LUKENS, H.R.	1900 2598
LUNDGREN, F.A.	1864
MAC GREGOR, M.H.	917
MADDOCK, R.S.	1698
MANDLER, J.W.	6971 7967
MARKER, R.C.	77
MARTIN, T.C.	1414 1798 2410 2504 2505 3076 3753 3794 6229
MARTINEZ, P.	6222
MASTERS, C.F.	6713
MATHE, F.	2806
MATHUR, S.C.	1414 1798 5757 6845
MAY, L.	2129
MC CABE, W.J.	1815
MC ELLISTREM, W.	285
MC KOWN, D.	5720
MEINKE, W.W.	712 1054 1172 1698 3553
MENLOVE, H.O.	6713 6714
MENON, M.P.	546 1978
MERZ, E.	1522

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METCALF, A.	1394 2622
METVEEV, V.V.	3751
METZGER, A.E.	253 1052 1284
MILLER, F.J.	1450
MILLS, W.R., JR.	7033
MINAEV, V.M.	2764
MISHIMA, I.	6856
MITCHELL, C.	6222
MIYAGAWA, K.	6856 7330
MIYOSHI, K.	426 1067 1399 1656 2297 2649
MIZUGUCHI, H.	2297
MONAGHAN, R.	961 996
MONNIER, D.	1217 1535
MORGAN, I.L.	1414 2410 2504 2505 3076 3753 3794 3976
MORI, H.	2418
MOTT, W.E.	1981 2512
MUNZER, H.	3746
MURANO, R.	7102
MUSAEV, R.M.	5321 5782
MUTO, H.	426 1115 1116 1399 1656 2649 5380 5431 5432 7114 7201
NAGATSUKA, S.	5920
NAGY, L.G.	2806
NAKAJIMA, K.	5920
NARGOLWALLA, S.S.	1864 2129 2666 4392 6318 6830 7025 7026 7031 7176 7966
NASS, H.W.	1698
NAUMOVA, I.I.	591 921
NAVALIKHIN, L.V.	6705
NELP, W.B.	7102 7318
NEW BRUNSWICK LABORATORY, AEC	2987

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NICKEL, H.	2678
NIEWODNICZANSKI, J.	7966
NIKOLAENKO, O.K.	5780
NOMURA, E.	6856 7330
OGAWA, K.	960 1115 1116
OLDHAM, G.	5714 5757 6718 6845
OLIVE, G.	1815 1896 1922 5409
ONODERA, K.	7114
OP DE BEECK, J.	7259
ORANGE, J.M.	1981 2512
ORDOGH, M.	2806
ORIFKHODZHAEV, U.	7926
OSBORN, S.B.	155 6014
OSHRY, H.I.	695
OSTACHOWICZ, J.	3335
OWSIK, T.	6325
PALMER, H.E.	7102
PARKER, C.V., JR.	2410 3076 3794 3976
PASZTOR, E.	1602 2761 6022
PASZTOR, L.C.	1950 2542
PAULY, J.	977
PERDIJON, J.	1304 1640 1753 2983 3090 3980 5443 5708 6357 7302
PERSIANI, C.	6065 7301
PIERCE, K.C.	316
PIERCE, T.B.	6743
PLAKSIN, I.N.	3087 5778
PRAPUOLENIS, A.A.	7219
PRESSER, G.	2615
PRICE, H.J.	2549



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PRIEST, G.L.	3781 5339
PRIEST, H.F.	3781 5339
PRONMAN, I.M.	5321 5781 5782
PRUDHOMME, J.T.	3753
PRZYBYLOWICZ, E.P.	6830 7025 7026 7176
QUIGLEY, D.A.	7320
RAVNIK, V.	7413
REED, J.H.	6971 7967
REIFENSCHWEILER, D.	7029
RHODES, J.R.	5764 6229 7030 7202
RICCI, E.	1593 1939 7881
RICH, C.	7102
RICHARDSON, A.E.	7902
RISON, M.H.	4273 5420
ROPER, N.J.	1875
ROSENBLUM, L.	3085
ROSS, W.J.	3074
ROTTMANN, J.	2678
RUNDO, J.	155
SALMON, L.	155
SAMOSADNYI, V.T.	2764
SAMSON, C.	1912
SANTOS, G.G.	6404 6967
SARDI, A.	5416
SATO, M.	1115
SATTAROV, M.	6201 6301
SCHMIDT-BLEEK, F.	5403
SCHMITT, R.A.	5720
SCHNEIDER, E.L.	7907

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SCHOLES, P.H.	5389
SCHRADER, C.D.	1052
SCHRAMEL, P.	3746 7142 7403
SCHULZE, W.	898 1666
SELLSCHOP, J.P.F.	6358
SELZ, J.	1217
SENFTLE, F.E.	2720 4282 6222
SEVIER, P.	5409
SHAMAEV, V.I.	3364
SHANKS, D.E.	2498 4214
SHCHIOKAVA, T.	2674
SHIDELER, R.W.	1054
SHIGEMATSU, T.	5776
SHIMURA, K.	2649 7330
SHTAN, A.S.	5780
SICILIO, F.	936
SIEBERG, R.	3794
SIEBERG, R.D.	7202
SIVOKON, N.V.	7214
SMAKHTIN, L.A.	7969
SMITH, D.B.	6714
SMITH, G.W.	7026 7176
SMITH, J.W.	155
SMITH, R.H.	5720
SOCIETE ANONYME DE MACHINES ELECTROSTATIQUES	1619
SOKOLOV, L.A.	7411
SOMMERKORN, G.	2615
SPEECKE, A.	5772 6398 6723 6728 7076 7289
STARCHIK, L.P.	3087 5778
STEELE, E.L.	712 1721 1900 1912 2598 2734 3553
STEELE, T.W.	6402

# 14-MEV NEUTRON GENERATOR-AUTHOR INDEX

STENSLAND, W.A.	1802
STOCKER, H.J.	2678
STOLL, N.	5450 5451 5452 7419
STRAIN, J.E.	1940 3058 3074 5711
SUDDUETH, J.E.	6318 6830 7025 7026 7176 7966
SUZUKI, H.	5920
SWISHER, J.A.	3973
TACZANOWSKI, S.	7387
TADA, K.	960
TAKADA, K.	5432
TALANIN, Y.N.	6201 6301 6705
TAMURA, M.	5923 7296 7970
TANI, A.	1115 1116 7114
TAYLOR, D.	1773
TERREY, D.R.	2433
TEXAS NUCLEAR CORPORATION	618 680 1889
THORPE, M.M.	6714
TITTLE, C.W.	679
TOMCSANYI, A.	5416
TOMLINSON, R.W.S.	155 6014
TO-ON, M.	936 1899 1912 2705
TOUSSET, J.	4260
TROMBKA, J.I.	1284
TRUSSLER, J.W.A.	7320
TSUJI, H.	628 1152 1656 2384 6352
TUCKER, W.O.	7912
TURNER, S.E.	518
TUSTANOVSKII, V.T.	3087 5778 7926
TUTUBALIN, A.I.	7214 7923
TWITTY, B.L.	1905 2778 2798 3357 3981
TYOU, P.	7290 7291

## 14-MEV NEUTRON GENERATOR-AUTHOR INDEX

UKEN, E.A.	6358
VAN GRIEKEN, R.	6398 6723
VAN WYK, J.M.	2586
VASS; S.	6703
VEAL, D.J.	519 629
VERNIN, E.	1640 1753 2667
VINCENT, H.A.	1887 2354 2453 5739 6684
VOELKER, F.	77
VOGT, J.R.	199 285 1017 1954 2506
VOIGT, A.F.	1802
VOLBORTH, A.	1229 1294 1887 2354 2453 5322 5353 5739 6684
VORSATZ, B.	6703
WADE, J.T.	2519
WAGGONER, J.A.	1052 5384
WAGNER, A.	5450 5451 5452 7419
WAINERDI, R.E.	936 1033 1721 1912 2586 3790 6404 6967
WALKER, L.J.	2524
WASHINGTON POST	1955
WATERS, J.B.	6229
WATTERSON, J.I.W.	6358
WEBER, G.	6059
WILKINS, W.W.	1721
WILKNISS, P.E.	4273 5420
WING, J.	1297
WOJTKOWSKA, J.	621 1859
WOOD, D.E.	1407 1875 1950 1956 2542 2569 2580 3796 6075 6841 7907
WOOD, J.D.L.H.	1701 2526 2527 7028



# 14-MEV NEUTRON GENERATOR-AUTHOR INDEX

YAMAGISHI, M.	7330
YAMAKI, N.	5923
YAVORSKY, P.M.	2933
YOUMANS, A.H.	996
YUNUSOV, M.	6201
YUTAKA, M.	1399
ZADVORNYI, A.S.	7214
ZENGER, J.H.	1052



## APPENDIX II





14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

ALUMINUM

518 961 1414 1813 1889 2498 2504 2526 2622 2764 3075 3355  
3753 3976 5383 5384 5978 6229 6301 6352 6845 6967 7293  
7301 7302 7320 7338 7403 7404 7902

ANTIMONY

3355 3487 7923

BARIUM

1670 1738 1815 2498 3355 6301 7217

BROMINE

5714 5920

CALCIUM

155 1738 6014 6229 6975 7102 7318 7338 7403 7968

CERIUM

546 1978 2498 5778

CHLORINE

155 1217 1514 1670 1738 1815 2498 3355 6014 7026 7102 7176  
7338 7403 7902

CHROMIUM

6743

COBALT

1813

COPPER

621 1815 1859 3075 3487 5383 5403 6301

ERBIUM

5778

14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

FLUORINE

1084 1514 1813 2433 2498 2666 2796 2987 4261 4392 5445

GALLIUM

3487

GOLD

6358

IODINE

7026 7176

IRON

961 1815 2526 3075 5383 5384 6229 6301 6743 6845 6967 7217  
7302 7404

LANTHANUM

1978

MAGNESIUM

961 1217 2526 3075 5383 5384 5978 6301 6967 7338

MANGANESE

1813 6743 7411

MOLYBDENUM

3487

NEODYMIUM

3087 5778

NICKEL

1813

NITROGEN

696 1670 1738 1939 2129 2384 2524 2569 3364 5420 5782 7102  
7219 7297 7400 7413 7907 7970

# 14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

## OXYGEN

131	199	426	519	629	762	977	1067	1103	1104	1116	1229	1248
1258	1294	1297	1309	1394	1399	1414	1453	1489	1589	1739		
1802	1804	1887	1889	1900	1939	1950	1954	1956	2129	2418		
2453	2498	2504	2505	2506	2518	2526	2542	2549	2580	2586		
2598	2615	2649	2678	2734	2749	2764	2798	2802	2983	3073		
3085	3090	3355	3357	3502	3553	3718	3746	3973	3981	4260		
5321	5322	5353	5380	5384	5409	5431	5432	5450	5451	5452		
5708	5772	5780	5781	5923	6065	6684	6694	6705	6722	6728		
6750	6845	6856	6967	6973	7076	7097	7142	7201	7214	7289		
7290	7291	7301	7330	7337	7344	7351	7387	7417	7419	7912		
7915	7917	7969										

## OXYGEN-18

3063

## PHOSPHORUS

936	1670	1738	1815	1899	1939	2129	2384	2498	2705	2764
2849	4273	7102	7219	7338	7403					

## PLUTONIUM

6713

## POTASSIUM

5384 7338

## PRASEODYMIUM

546 960 1115 1978 2498 3087 5778

## SAMARIUM

5778

## SCANDIUM

1813

## SELENIUM

2764 7926

14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

SILICON

518 628 961 1017 1297 1414 1535 1875 1889 1954 2354 2498  
2504 2506 2526 2596 3075 3355 3753 3976 4205 5383 5384  
5416 5720 5739 5776 5884 6201 6229 6301 6352 6398 6404  
6684 6723 6845 6967 6975 7293 7301 7302 7338 7403 7404

SILVER

1955 3487 6222

SODIUM

155 961 1217 1813 1968 2498 2519 5384 6014 6301 6973 7102  
7351

SULFUR

1815 2129 2764 2849 5923 6973 7296 7351

TERBIUM

5778

TITANIUM

3355 6065

URANIUM

3074 6713 6714

VANADIUM

6065 6743

YTTRIUM

2498 5778

ZINC

1670 1738 1815 3075 3487 5383 6845



### **APPENDIX III**



14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

ALUMINUM

5409 5432 6694

ALUMINUM ALLOYS

1804

BERYLLIUM

1103 1104 2505 2549 3073 7097 7214

BIOLOGICAL, IN VIVO

155 6014 7102 7318 7968

BISMUTH ALLOYS

7923

BRASS

5403

CEMENT

6229 6352 6975

CESIUM

131

COAL

1414 1798 1889 2504 2622 3753 6229 6301 7202 7293

COPPER

7387

CORROSION PRODUCTS

3075 5383

CORUNDUM

6201

FERROSILICON

2418

FERTILIZERS

1899

FISSIONABLE MATERIAL

3074 6713

FOODSTUFFS

2384 2569 7219 7297 7413 7907

GELS

4261

INORGANIC COMPOUNDS

1514 1939 7217

INORGANIC OXIDES

6065

IRON, STEEL

628 1394 1453 1875 1950 1956 2526 2542 2586 2596 2615 2649  
2678 2764 2983 3357 3981 5380 5389 5450 5451 5452 5708  
6398 6723 6728 6856 7076 7142 7289 7290 7291 7330 7344  
7419 7917

LIQUID LOOP SYSTEMS

1407 2666

MAGNESIUM

2798 3357 3981

MARINE SEDIMENTS

5776



# 14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

## METALS, GENERAL

426 1067 1399 1589 1739 2678 2749 2802 3090 3502 3746 3796  
5772 6722

## METEORITES

199 1017 1297 1813 1954 2506 5720 5884

## MINERALS, ORES

518 546 621 1294 1859 1955 1968 1978 2526 2720 3366 3460  
3976 4282 6222 6229 6358 6845 7202 7302 7926

## MOLTEN SALTS

2498

## MOLYBDENUM

5321 6705

## NICKEL

6743

## NICKEL ALLOYS

7320

## NIOBIUM

5781 5782

## OCEAN BOTTOM CORES

961

## ORGANIC COMPOUNDS

519 696 977 1084 2433 2519 3364

## PETROLEUM PRODUCTS

1535 1670 1738 1815 1899 2705 3355 4205 5923 6357 6973  
7296 7351 7970

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

PHOTOGRAPHIC EMULSIONS

7026 7176

PLANETARY AND LUNAR SURFACES

253 658 996 1033 1052 1284 1721 1912 3790 5261 6971 7967

PLANT MATERIAL

1899 5445 5978 7338 7403

POLYMERS

3973 7969

POTASSIUM

1900 2598 2734 3085

PROPELLANTS

4273 5420 7902

PROTEIN

2129

RARE EARTHS

960 1115

REFRACTIONS

7201

ROCKS

199 936 1229 1294 1297 1304 1887 1899 2354 2453 2705 5322  
5739 5884 6404 6684

RUBBER

2524

SOIL

2720 7404

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

SPUTUM

5416

STABLE TRACERS

5920

THIN FILMS

7301

TITANIUM

3357 3981 5431 5781 6750

VOLCANIC ASH

6967

WATER

1217 2666 5920

WELDS

7417

ZINC SOLUTIONS

2796

ZIRCALLOY

1309

ZIRCONIUM

762



## **APPENDIX IV**





# 14-MEV NEUTRON GENERATOR-TECHNIQUE USED

## GENERAL REVIEWS

567 591 679 716 917 921 1046 1056 1172 1394 1397 1450 1453  
1489 1508 1522 1530 1626 1666 1667 1698 1773 1896 1922  
1940 2617 2667 2674 2802 2806 2933 2975 2983 3058 3411  
3487 3495 3496 3497 3502 3553 3796 5383 5389 5450 5708  
5772 5780 6075 6357 6722 6840 6978 7142 7289 7291 7337  
7344 7417 7917

## FACILITIES, CONTROL SYSTEMS

285 898 972 1054 1067 1115 1116 1399 1804 1899 1905 1950  
1954 1956 1981 2297 2410 2504 2542 2549 2598 2705 2749  
2778 3335 3718 3751 3794 3976 4392 5380 5451 5772 5784  
6728 6975 7290

## ACCELERATOR, TECHNICAL ASPECTS

77 204 376 680 1054 1602 1619 1640 2561 2761 3058 6022  
7419

## PORTABLE GENERATORS, IN SITU ACTIVATION, SEALED TUBES

695 961 996 1033 1052 1284 1701 2527 2620 2720 4282 6222  
7027 7028 7029

## TARGETS

324 1054 1640 1753 1981 3810

## NEUTRON YIELDS, FLUX DISTRIBUTION, MONITORING, INTERNAL STANDARDS

316 1046 1054 1258 1437 1593 1640 1753 1940 1954 1956  
1981 2418 2512 2798 3357 3364 3981 4228 4260 6059 6398  
6402 6404 6703 6728 6730 6841 7259 7881 7915

## CROSS SECTIONS, SENSITIVITIES, YIELDS

618 678 712 972 996 1046 1152 1284 1304 1353 1399 1407  
1640 1656 1666 1753 2297 2567 2568 2617 3980 6340 7114  
7313 7966

## TABULATIONS OF GAMMA RAY SPECTRA FROM PRODUCTS

972 1640 1656 1899 2567 6340

## 14-MEV NEUTRON GENERATOR-TECHNIQUE USED

### SAMPLE POSITIONING AND ROTATING, PROBLEMS OF INHOMOGENEITY AND NON-UNIFORM SAMPLE

1864 1956 1981 2433 2512 2615 2678 2734 3781 5339 5353  
5443 5711 6325 6841

### IN STREAM FACILITIES

1407 1414 1798 2410 2504 2666 3076 3460 3794 3976 4392  
5764 6229 7030 7031 7202 7351

### INTERFERING REACTIONS

628 696 1103 1899 2580 2989 3355 4260 4273 5416 5757 5772  
5978 6014 6718 6723 6743 7296 7970

### SELF SHIELDING AND CONTAINER CORRECTIONS

500 1248 5923 6318 6694 6728 6830 7025 7076 7387 7400

### OXYGEN DETERMINATIONS COMPARED WITH OTHER METHODS

426 500 519 1589 1739 1900 1950 2297 2542 2549 2586 2598  
2649 3073 3085 3090 5431 5432 5452 5772 7330 7912

### THERMAL NEUTRONS

1813 3074 7411

### 2.8 MEV (D,D) NEUTRONS

2720 4214 6222 7026 7313 7966

### CYCLIC ACTIVATION

7033 7460 7962

### NEUTRON INELASTIC SCATTERING

5384







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